

High School to College and Career Pathway: Post-Secondary

Area of Study: Technology & Engineering Educ.

Pathway: Pre-Engineering

Region: Wasatch Front	District:	School:	College/Institution: Salt Lake Community College Articulation Agreement in place? Yes Name of Degree or Certificate: Materials Science Engineering, Associate of Pre-Engineering Transfer Degree
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High School				College		
Course CIP #	CTE Pathway Courses (4 credits for completion)	H.S. Credit	College Credits	Course #	College Major Course Requirements	College Credits
Course #	Foundation Courses: (2.5 required)	Credit				
21.0122	Principles of Engineering	1.00				
21.0120	Engineering Design, Introduction	1.00				
21.0121	Digital Electronics	1.00				
	<i>Choose one of the following courses:</i>					
21.0123	Computer Integrated Manufacturing	1.00				
21.0125	Civil Engineering & Architecture	1.00				
	Aerospace Engineering	1.00				
21.0124	Engineering Design & Development	1.00				
	Elective Courses: (choose 1.5 credits)					
48.0101	Drafting/CAD	1.00				
47.0105	Electronics	1.00				
48.0503	Machine Tool	1.00				
32.0199	Student Internship (Critical Workplce Skills)	.50				
				CEEN 2010	Statics	3
				CEEN 2140	Strengths of Materials I	2
				CHEM 2310	Organic chemistry I	4
				CS 1050	Engineering Computing or ENGR 1000 & ENGR 1020	3
				EE 2210	Electrical Engineering for Non-Electrical Engineering Majors	3
				MATH 1220	Calculus II	4
				MATH 2210	Multivariate Calculus	3
				MATH 2250	Differential Equations/Linear Algebra	3
				MSE 2010	Introduction to Materials Science Engineering	4
				MSE 2210	Electronic Properties of Materials	3
				MSE 2410	Introduction to Polymers	3
				PHYS 2210	Physics for Science & Engineering I	4
				PHYS 2215	Physics for Science & Engineering Lab I	1
				PHYS 2220	Physics for Science & Engineering II	4
					ELECTIVES (Optional) May be required at some transfer institutions. See advisor. -CEEN 2450 -CHEM 2320 MSE 2000	

	<u>Additional Articulated Classes Below</u>	<u>Credit</u>					
	CHEM 1210 Chemistry W/Lab Conc Enrol*	1	4	→	CHEM 1210	General Chemistry I	4
	CHEM 1215 Chemistry W/Lab Conc Enrol*		1	→	CHEM 1215	General Chemistry Lab I	1
	CHEM 1220 Chemistry W/Lab Conc Enrol*	1	4	→	CHEM 1220	General Chemistry II	4
	CHEM 1225 Chemistry W/Lab Conc Enrol*		1	→	CHEM 1225	General Chemistry II Lab	1
TOTAL Potential Credits Earned in High School			26		TOTAL Credits Required for Degree or Certificate		73

Note: This is a regional agreement. Some classes and some concurrent enrollment agreements may not be available in your particular high school. See your individual school for specific program offering. **Note: *= concurrent ^= distant**

Note: Requirements may change year-to-year. It is the student's responsibility to verify information by consulting with an SLCC department advisor.

Note: It is essential that students, while in high school, take as much mathematics, chemistry, physics and English as possible.

Note: This is designed to be a transfer degree to a university. Additional upper-division General Education courses will be required at the receiving institution. Regarding transferring from SLCC to a university program, students should consult with academic advisors at both institutions.